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In the Claims

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

Please cancel claim 33 without prejudice or disclaimer.

Please amend pending claims 22, 23, 32, 36 and 38 as noted below.

- 1-21. (Canceled)
- 22. (Currently Amended) A method for stimulating an immune response in a subject, comprising:

administering to a subject exposed to an antigen an effective amount for inducing a synergistic antigen specific immune response of an immunopotentiating <u>IL-3</u> cytokine selected from the group consisting of IL-3 and IL-12, and an immunostimulatory CpG oligonucleotide having a sequence including at least the following formula:

wherein the oligonucleotide is includes at least 8 to 100 nucleotides long, wherein C is unmethylated and wherein X_1 and X_2 are nucleotides, wherein the cytokine is a peptide, whereby an antigen is optionally additionally administered, and wherein the antigen and the CpG oligonucleotide are not conjugated.

- 23. (Currently Amended) The method of claim 22, wherein the immunopotentiating cytokine and the antigen are fused to form is an antigen-cytokine fusion protein.
- 24. (Previously Presented) The method of claim 22, wherein the antigen is selected from the group consisting of a tumor antigen, a microbial antigen, and an allergen.
- 25. (Previously Presented) The method of claim 24, wherein the antigen is a tumor antigen.

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26. (Previously Presented) The method of claim 22, wherein the antigen is administered to the subject in conjunction with the immunostimulatory CpG oligonucleotide and the immunopotentiating cytokine.

- 27. (Previously Presented) The method of claim 22, wherein the subject is passively exposed to the antigen.
- 28. (Previously Presented) The method of claim 22, wherein the subject has a neoplastic disorder.
- 29. (Previously Presented) The method of claim 22, wherein the subject has a viral infection.
- 30. (Previously Presented) The method of claim 22, wherein the subject is a non-human animal.
- 31. (Previously Presented) The method of claim 30, wherein the non-human animal is a vertebrate animal selected from the group consisting of a dog, a cat, a horse, a cow, a pig, a sheep, a goat, a chicken, and a primate.
- 32. (Currently Amended) A composition, comprising: an effective amount, for synergistically activating a dendritic cell, of an immunostimulatory CpG oligonucleotide having a sequence including at least the following formula:

wherein the oligonucleotide is includes at least 8 to 100 nucleotides long, wherein C is unmethylated and wherein X_1 and X_2 are nucleotides; and a IL-3 cytokine selected from the group consisting of IL-3 and IL-12, wherein the cytokine is a peptide.

33. (Cancelled) The composition of claim 32, wherein the cytokine is IL-3.

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34. (Previously Presented) The composition of claim 32, further comprising an antigen and wherein the antigen and the CpG oligonucleotide are not conjugated.

- 35. (Previously Presented) The composition of claim 34, wherein the antigen is selected from the group consisting of a cancer antigen, a microbial antigen, and an allergen.
- 36. (Currently Amended) A method for activating a dendritic cell, comprising: contacting a dendritic cell exposed to an antigen with an effective amount for synergistically activating a dendritic cell of an immunopotentiating <u>IL-3</u> cytokine selected from the group consisting of <u>IL-3</u> and <u>IL-12</u>, and an immunostimulatory CpG oligonucleotide having a sequence including at least the following formula:

wherein the oligonucleotide is includes at least 8 to 100 nucleotides long, wherein C is unmethylated and wherein X_1 and X_2 are nucleotides, wherein the cytokine is a peptide, whereby an antigen is optionally additionally administered, and wherein the antigen and the CpG oligonucleotide are not conjugated.

- 37. (Previously Presented) The method of claim 36, wherein the antigen is a tumor antigen.
- 38. (Currently Amended) A method for treating a subject having a neoplastic disorder, comprising:

administering to the tumor of a subject having a neoplastic disorder an immunopotentiating <u>IL-3</u> cytokine selected from the group consisting of IL-3 and IL-12, and an immunostimulatory CpG oligonucleotide having a sequence including at least the following formula:

wherein the oligonucleotide <u>is</u> includes at least 8 to 100 nucleotides <u>long</u>, wherein C is unmethylated and wherein X_1 and X_2 are nucleotides, in an amount effective for synergistically increasing survival time of the subject with respect to a subject administered the immunostimulatory CpG oligonucleotide or the immunopotentiating cytokine alone, wherein the cytokine is a peptide.

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39. (Previously Presented) The method of claim 38, wherein the tumor is selected from the group consisting of a lymphoma and a tumor of the brain, lung, ovary, breast, prostate, colon, and skin.

- 40. (Previously Presented) The method of claim 38, wherein the immunostimulatory CpG oligonucleotide and the immunopotentiating cytokine are injected directly into the tumor.
- 41. (Previously Presented) The method of claim 38, wherein the subject is a non-human animal.
- 42. (Previously Presented) The method of claim 41, wherein the non-human animal is a vertebrate animal selected from the group consisting of a dog, a cat, a horse, a cow, a pig, a sheep, a goat, a chicken, and a primate.
- 43. (Previously Presented) The method of claim 42, wherein the tumor is selected from the group consisting of lymphoma and a tumor of the brain, lung, ovary, breast, prostate, colon, and skin.